

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Application Number	10/735,601
Filing Date	12/12/2003
First Named Inventor	Smith et al.
Art Unit	1635-1633
Examiner Name	Brian A. Whitemann Robert M. Kelly
Attorney Docket Number	95-02

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U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
<i>PK</i>	1	6,844,188	01/18/2005	MacDonald et al.	
	2	6,783,939	08/31/2004	Olmsted et al.	
	3	6,583,121	06/24/2003	Johnston et al.	
	4	6,451,592	09/17/2002	Dubensky, Jr. et al.	
	5	6,426,196	07/30/2002	Dubensky, Jr. et al.	
	6	6,391,632	05/21/2002	Dubensky, Jr. et al.	
	7	6,376,236	04/23/2002	Dubensky, Jr. et al.	
	8	6,342,372	01/29/2002	Dubensky, Jr. et al.	
	9	6,329,201	12/11/2002	Polo et al.	
	10	6,261,570	07/17/2002	Parker et al.	
	11	6,224,879	05/01/2002	Sjoberg et al.	
	12	6,156,558	12/05/2000	Johnston et al.	
	13	6,146,874	11/14/2000	Zolotukhin et al.	
	14	6,015,694	01/18/2000	Dubensky, Jr. et al.	
	15	6,015,686	01/18/2000	Dubensky, Jr. et al.	
	16	6,008,035	12/28/1999	Johnston et al.	
	17	5,843,723	12/01/1998	Dubensky, Jr. et al.	
	18	5,814,482	09/29/1998	Dubensky, Jr. et al.	
	19	5,789,245	08/04/1998	Dubensky, Jr. et al.	
	20	5,766,602	06/16/1998	Xiong et al.	
	21	5,739,026	04/14/1998	Garoff et al.	
	22	5,217,879	06/08/1993	Huang et al.	
	23	5,091,309	02/25/1992	Schlesinger et al.	
	24	4,708,871	11/24/1987	Geysen	
	25	2005/0123555	06/09/2005	Olmsted et al.	
	26	2005/0054107	03/10/2005	Chulay et al.	
	27	2004/0235133	11/25/2004	Frolov et al.	
	28	2004/0029278	02/12/2004	Dubensky et al.	
	29	2003/0232035	12/18/2003	Dubensky et al.	
	30	2003/0148262	08/07/2003	Polo et al.	
	31	2003/0119182	06/26/2003	Smith et al.	
<i>PK</i>	32	2002/0141975	10/03/2002	Olmsted et al.	

Examiner
Signature*Robert M. Kelly*Date
Considered*2/2/07*

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FOREIGN PATENT DOCUMENTS

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MK	33	WO 04/085660	10/07/2004	Smith et al.		
	34	WO 03/023026 A	03/20/2003	Smith et al.		
	35	WO 02/20721	03/14/2002	Johnston et al.		
	36	WO 00/61772	10/19/2000	Polo et al.		
	37	WO 00/39318	07/06/2000	Polo et al.		
	38	WO 96/37616	11/28/1996	Johnston et al.		
	39	WO 96/37220	11/28/1996	Johnston et al.		
	40	WO 96/17072	06/06/1996	Dubensky, Jr. et al.		
	41	WO 95/31565	11/23/1995	Sjoberg et al.		
	42	WO 95/27044	10/12/1995	Liljestrom et al.		
	43	WO 95/07994	03/23/1995	Dubensky, Jr. et al.		
MK	44	WO 92/10578	06/25/1992	Garoff et al.		

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MK	45	Barouch et al. (2000) "Augmentation of Immune Responses to HIV-1 and Simian Immunodeficiency Virus DNA Vaccines by IL-2/Ig Plasmid Administration in Rhesus Monkeys," <i>Proc. Natl. Acad. Sci. USA</i> 97(8):4192-4197	
	46	Berglund et al. (1993) "Semliki Forest Virus Expression System: Production of Conditionally Infectious Recombinant Particles," <i>BioTechnology</i> 11:916-920	
	47	Betts et al. (1997) "Cross-Clade Human Immunodeficiency Virus (HIV)-Specific Cytotoxic T-Lymphocyte Responses in HIV-Infected Zambians," <i>J. Virol.</i> 71(11):8908-8911	
	48	Bredenbeek et al. (1993) "Sindbis Virus Expression Vectors: Packaging of RNA Replicons by Using Defective Helper RNAs," <i>J. Virol.</i> 67:6439-6446	
MK	49	Caley et al. (1997) "Humoral, Mucosal, and Cellular Immunity in Response to a Human Immunodeficiency Virus Type 1 Immunogen Expressed by a Venezuelan Equine Encephalitis Virus Vaccine Vector," <i>J. Virol.</i> 71(4):3031-3038	

Examiner Signature	<i>Robert M. Kelly</i>	Date Considered	2/2/07
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		Examiner Name	Brian A. Whitemann Robert M. Kelly
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MK	50	Caley et al. (1999) "Venezuelan Equine Encephalitis Virus Vectors Expressing HIV-1 Proteins: Vector Design Strategies for Improved Vaccine Efficacy," <i>Vaccine</i> 17:3124-3135		
	51	Chappell et al. (Feb. 2000) "A 9-nt Segment of a Cellular mRNA can Function as an Internal Ribosome Site (IRES) and When Present in Linked Vaccine Efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 97(4):1536-1541		
	52	Corsini et al. (1996) "Efficiency of Transduction by Recombinant Sindbis Replicon Virus Varies Among Cell Lines, Including Mosquito Cells and Rat Sensory Neurons," <i>BioTechniques</i> 21(3):492-497		
	53	Cutler et al. (1986) "Mutants of the Membrane-binding Region of Semliki Forest Virus E2 Protein.I. Cell Surface Transport and Fusogenic Activity," <i>J. Cell Biol.</i> 102:889-901		
	54	Davis et al. (1993) "A Genetically Engineered Live Virus Vaccine for Venezuelan Equine Encephalitis," <i>J. Cell Biochem. Supp</i> O No.17 part D, Abstract N404		
	55	Davis et al. (1996) "A Viral Vaccine Vector that Expresses Foreign Genes in Lymph Nodes and Protects Against Mucosal Challenge," <i>J. Virol.</i> 70:3781-3787		
	56	Davis et al. (1995) "Attenuated Mutants of Venezuelan Equine Encephalitis Virus Containing Lethal Mutations in the PE2 Cleavage Signal Combined with a Second-Site Suppressor Mutation in E1," <i>Virol.</i> 212:102-110		
	57	Davis et al. (1991) "Attenuating Mutations in the E2 Glycoprotein Gene of Venezuelan Equine Encephalitis Virus: Construction of Single and Multiple Mutants in a Full-Length cDNA Clone," <i>Virol.</i> 183:20-31		
	58	Davis et al. (1996) "Immunization Against Influenza with Attenuated Venezuelan Equine Encephalitis Virus Vectors," In: <i>Options for the Control of Influenza III</i> , L.E.Brown and A.W.Hampson, eds. Elsevier, Amsterdam pp.803-809		
	59	Davis et al. (1990) "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNS from a cDNA Clone: Analysis of a Viable Deletion Mutant and Mutations Affecting Virulence," <i>Vaccines</i> 90:109-113		
	60	Davis et al. (1989) "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virol.</i> 171:189-204		
	61	Davis et al. (2001) "Vaccination of Macaques Against Pathogenic Simian Immunodeficiency Virus with Venezuelan Equine Encephalitis Virus Replicon Particles," <i>J. Virol.</i> 74(1):371-378		
	62	Davis et al. (1994) "A Molecular Genetic Approach to the Study of Venezuelan Equine Encephalitis Virus Pathogenesis," <i>Arch. Virol.</i> 9:99-109		
	63	Dubensky et al. (1996) "Sindbis Virus DNA-Based Expression Vectors: Utility for in Vitro and in Vivo Gene Transfer," <i>J. Virol.</i> 70:508-519		
MK	64	Dubuisson et al. (1993) "Sindbis Virus Attachment: Isolation and Characterization of Mutants With Impaired Binding to Vertebrate Cells," <i>J. Virol.</i> 67:3363-3374		
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TK	65	Favre et al. (1993) "Semliki Forest Virus Capsid Protein Expressed by a Baculovirus Recombinant," <i>Arch. Virol.</i> 132:307-319	
	66	Feyzi et al (1997) "Structural Requirement of Heparan Sulfate for Interaction with Herpes Simplex Virus Type 1 Virions and Isolated Glycoprotein C," <i>J. Biol. Chem.</i> 272(40):24850-24857	
	67	Garoff et al. (1983) "Expression of Semliki Forest Virus Proteins from Cloned Complementary DNA. II. The Membrane-Spanning Glycoprotein E2 is Transported to the Cell Surface Without its Normal Cytoplasmic Domain," <i>J. Cell Biol.</i> 97:652-658	
	68	Geigenmuller-Gnirke et al. (1991) "Complementation Between Sindbis Viral RNAs Produce Infectious Particles with a Bipartite Genome," <i>Proc. Natl. Acad. Sci. USA.</i> 88:3253-3257	
	69	Gingras et al. (1996) "Activation of the Translational Suppressor 4E-BP1 Following Infection with Encephalomyocarditis Virus and Poliovirus," <i>Proc. Natl. Acad. Sci. USA</i> 93:5578-5583	
	70	Gradi et al. (1998) "Proteolysis of Human Eukaryotic Translation Initiation Factor eIF4GII, but Not eIF4GI, Coincides with the Shutoff of Host Protein Synthesis after Poliovirus Infection," <i>Proc. Natl. Acad. Sci. USA</i> 95:11089-11094	
	71	Grieder et al. (1995) "Specific Restrictions in the Progression of Venezuelan Equine Encephalitis Virus-Induced Disease Resulting from Single Amino Acid Changes in Glycoproteins," <i>Virol.</i> 206:994-1006	
	72	Heidner et al. (1994) "Lethality of PE2 Incorporation into Sindbis Virus can be Suppressed by Second-Site Mutations in E3 and E2," <i>J. Virol.</i> 68:2683-2692	
	73	Heise et al. (Jan. 2003) "An Attenuation Mutation in nsP1 of the Sindbis-Group Virus S.A.AR86 Accelerates Nonstructural Protein Processing and Up Regulates Viral 26S RNA Synthesis," <i>J. Virol.</i> 77(2):1149-1156	
	74	Herweijer et al. (1997) "Self-Amplifying Vectors for Gene Delivery," <i>Adv. Drug Rev.</i> 27:5-16	
	75	Hevey et al. (Nov. 2001) "Marburg Virus Vaccines: Comparing Classical and New Approaches," <i>Vaccine</i> 20:586-593	
	76	Hirsch et al. (1996) "Patterns of Viral Replication Correlate with Outcome in Simian Immunodeficiency Virus (SIV)-Infected Macaques: Effect of Prior Immunization with a Trivalent SIV Vaccine in Modified Vaccinia Virus Ankara," <i>J. Virol.</i> 70(6):3741-3752	
	77	Hodgson et al. (1993) "Expression of Venezuelan Equine Encephalitis Viral Proteins by Recombinant Baculoviruses," <i>Am. J. Trop. Med. Hygiene</i> 49:195-196	
V	78	Holcik et al. (2000) "Functional Characterization of the X-Linked Inhibitor of Apoptosis (XIAP) Internal Ribosome Entry Site Element: Role of La Autoantigen in XIAP Translation," <i>Mol. Cell. Biol.</i> 20(13):4648-4657	
TK	79	Holcik et al. (1999) "A New Internal-Ribosome-Entry-Site Motif Potentiates XIAP-Mediated Cytoprotection," <i>Nature Cell Biol.</i> 1:190-192	
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MK	80	Holcik et al. (Jan. 2003) "The Internal Ribosome Entry Site-Mediated Translation of Antiapoptotic Protein XIAP is Modulated by the Heterogeneous Nuclear Ribonucleoproteins C1 and C2," <i>Mol. Cell. Biol.</i> 23(1):280-288		
	81	International Search Report of International Application Serial No. PCT/US02/28610 filed September 6, 2002		
	82	International Search Report Corresponding to PCT/US 2004/008458 Filed October 25, 2004		
	83	Jalanko (1985) "Expression of Semliki Forest Virus Capsid Protein from SV40 Recombinant Virus," <i>FEBS Lett.</i> 186:59-64		
	84	Jang et al. (1990) "Cap-Independent Translation of Encephalomyocarditis Virus RNA: Structural Elements of the Internal Ribosomal Entry Site and Involvement of a Cellular 57kD RNA-Binding Protein," <i>Genes and Development</i> 4:1560-1572		
	85	Joachims et al. (1999) "Cleavage of Poly(A)-Binding Protein by Enterovirus Proteases Concurrent with Inhibition of Translation <i>In Vitro</i> ," <i>J. Virol.</i> 73(1):718-727		
	86	Johnston et al. (1996) "Alphaviruses," In: <i>Fields Virology</i> , 3 rd ed., Lippincott-Raven Publishers, Philadelphia, Chapt 28:843-898		
	87	Johnston et al. (1988) "Selection for Accelerated Penetration in Cell Culture Coselects for Attenuated Mutants of Venezuelan Equine Encephalitis Virus," <i>Virol.</i> 162:437-443		
	88	Kinney et al. (1993) "Attenuation of Venezuelan Equine Encephalitis Virus Strain TC-83 Is Encoded by the 5'-Noncoding Region and the E2 Envelope Glycoprotein," <i>J. Virol.</i> 67:1269-1277		
	89	Knight (1999) "Secretion from Bovine Chromaffin Cells Acutely Expressing Exogenous Proteins using a Recombinant Semliki Forest Virus Containing an EGFP Reporter," <i>Mol. Cell. Neuro.</i> 14(6):486-505		
MK	90	Kohl et al. (1999) "Transient Gene Expression in Mammalian and Mosquito Cells Using a Recombinant Semliki Forest Virus Expressing T7 RNA Polymerase," <i>Appl. Microbiol. Biotechnol.</i> 53(1):51-56		
	91	Kondor-Koch et al. (1983) "Expression of Semliki Forest Virus Proteins from Cloned Complementary DNA. I. The Fusion Activity of the Spike Glycoprotein," <i>J. Cell. Biol.</i> 97(3):644-651		
	92	Lee et al. (1997) "Efficient Long-Term Coexpression of a Hammerhead Ribozyme Targeted to the U5 Region of HIV-1 LTR by Linkage to the Multidrug-Resistance Gene," <i>Antisense & Nucleic Acid Drug Development</i> 7:511-522		
	93	Lemm et al. (1994) "Polypeptide Requirements for Assembly of Functional Sindbis Virus Replication Complexes: A Model for the Temporal Regulation of Minus- and Plus-Strand RNA Synthesis," <i>EMBO J.</i> 13:2925-2934		
	94	Leone et al. (1985) "In Vitro Synthesis of the Gene Coding for the Glycoprotein E1 of Sindbis Virus," <i>Microbiologica</i> 8(2):123-130		
	95	Li et al. (1996) "Production of Infectious Recombinant Moloney Murine Leukemia		
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PK		Virus Particles in BHK Cells Using Semliki Forest Virus-Derived RNA Expression Vectors," <i>Proc. Natl. Acad. Sci. USA</i> 93:11658-11663	
	96	Liljestrom et al. (1991) "A New Generation of Animal Cell Expression Vectors Based on the Semliki Forest Virus Replicon." <i>BioTechnology</i> 9:1356-1361	
	97	Liljestrom (1994) "Alphavirus Expression Systems," <i>Curr. Opin. Biotechnol.</i> 5:495-500	
	98	Lobigs et al. (1990) "Fusion Function of the Semliki Forest Virus Spike is Activated by Proteolytic Cleavage of the Envelope Glycoprotein Precursor p62," <i>J. Virol.</i> 64:1233-1240	
	99	Lundstrom et al. (1985) "Secretion of Semliki Forest Virus Membrane Glycoprotein E1 from <i>Bacillus subtilis</i> ," <i>Virus Res.</i> 2:69-83	
	100	Martinez-Salas et al. (May 2001) "Functional Interactions in Internal Translation Initiation Directed by Viral and Cellular IRES Elements," <i>J. Gen. Virol.</i> 82:973-984	
	101	McKnight et al. (1996) "Deduced Consensus Sequence of Sindbis Virus Strain AR339: Mutations Contained in Laboratory Strains which Affect Cell Culture and <i>In Vivo</i> Phenotypes," <i>J. Virol.</i> 70(3):1981-1989	
	102	Melancon et al. (1987) "Processing of the Semliki Forest Virus Structural Polyprotein: Role of Capsid Protease," <i>J. Virol.</i> 61:1301-1309	
	103	Melancon et al. (1986) "Reinitiation of Translocation in the Semliki Forest Virus Structural Polyprotein: Identification of the Signal for the E1 Glycoprotein," <i>EMBO J.</i> 5:1551-1560	
	104	Morgenstern et al. (1990) "Advanced Mammalian Gene Transfer: High Titre Retroviral Vectors with Multiple Drug Selection Markers and a Complementary Helper-Free Packaging Cell Line," <i>Nuc. Acid. Res.</i> 18:3587-3596	
	105	Oker-Blom et al. (1989) "Expression of Sindbis Virus 26S cDNA in <i>Spodoptera frugiperda</i> (Sf9) Cells, Using a Baculovirus Expression Vector," <i>J. Virol.</i> 63:1256-1264	
	106	Orkin et al. (1995) "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy"	
	107	Paredes et al. (1993) "Three-Dimensional Structure of a Membrane-Containing Virus," <i>Proc. Natl. Acad. Sci. USA</i> 90:9095-9099	
	108	Polo et al. (1990) "Attenuating Mutations in Glycoproteins E1 and E2 of Sindbis Virus Produces a Highly Attenuated Strain When Combined <i>In Vitro</i> ," <i>J. Virol.</i> 64:4438-4444	
	109	Presley et al. (1991) "Proteolytic Processing of the Sindbis Virus Membrane Protein Precursor PE2 is Nonessential for Growth in Vertebrate Cells but is required for Efficient Growth in Invertebrate Cells," <i>J. Virol.</i> 65:1905-1909	
	110	Pugachev et al. (2000) "Development of a Rubella Virus Vaccine Expression Vector: Use of a Picornavirus Internal Ribosome Entry Site Increases Stability of Expression," <i>J. Virol.</i> 74:10811-10815	
PK	111	Pushko et al. (Dec. 2001) "Individual and Bivalent Vaccines Based on Alphavirus Replicons Protect Guinea Pigs Against Infection with Lassa and Ebola Viruses," <i>J.</i>	
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<i>MK</i>		<i>Virol. 75(23):11677-11685-</i>	
	112	Pushko et al. (1997) "Replicon-Helper Systems from Attenuated Venezuelan Equine Encephalitis Virus: Expression of Heterologous Genes in Vitro and Immunization Against Heterologous Pathogens in Vivo," <i>Virol. 239:389-401</i>	
	113	Rayner et al. (Sept. 2002) "Alphavirus Vectors and Vaccination," <i>Rev. Med. Virol. 12(5):279-296</i>	
	114	Rice et al. (1985) "Expression of Sindbis Virus Structural Proteins via Recombinant Vaccinia Virus: Synthesis, Processing, and Incorporation into Mature Sindbis Virions," <i>J. Virol. 56:227-239</i>	
	115	Riedel (1985) "Different Membrane Anchors Allow the Semliki Forest Virus Spike Subunit E2 to Reach the Cell Surface," <i>J. Virol. 54:224-228</i>	
	116	Roberts et al. (1997) "Complementation of Defective Picornavirus Internal Ribosome Entry Site (IRES) Elements by the Coexpression of Fragments of the IRES," <i>Virol. 227:53-62</i>	
	117	Russell et al. (1989) "Sindbis Virus Mutations Which Coordinately Affect Glycoprotein Processing, Penetration, and Virulence in Mice," <i>J. Virol. 63:1619-1629</i>	
	118	Salminen et al. (1992) "Membrane Fusion Process of Semliki Forest Virus II: Cleavage-Dependant Reorganization of the Spike Protein Complex Controls Virus Entry," <i>J. Cell. Biol. 116:349-357</i>	
	119	Schlesinger et al. (1996) "Togaviridae: The Viruses and Their Replication," In: <i>Fields Virology</i> , 3 rd Edition, Lipincott-Raven Publishers, Philadelphia, pp.825-841	
	120	Schlesinger et al. (1994) "Recombination Between Sindbis Virus RNAs," <i>J. Virol. 65:4017-4025</i>	
	121	Schoepp et al. (1993) "Directed Mutagenesis of a Sindbis Virus Pathogenesis Site," <i>Virol. 193:149-159</i>	
	122	Shi et al. (May 2002) "Construction and Characterization of Subgenomic Replicons of New York Strain of West Nile Virus," <i>Virol. 296(2):219-233</i>	
	123	Simpson et al. (1996) "Complete Nucleotide Sequence and Full Length cDNA Clone of S.A.Ar86, a South African Alphavirus Related to Sindbis," <i>Virol. 222:464-469</i>	
	124	Sjoberg et al. (1994) "A Significantly Improved Semliki Forest Virus Expression System Based on Translation Enhancer Segments from the Viral Capsid Gene," <i>BioTechnol. 12:1127-1131</i>	
	125	Strauss et al. (1990) "Alphavirus Proteinases," <i>Sem. Virol. 1:347-356</i>	
	126	Strauss et al. (1994) "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiological Rev. 58:491-562</i>	
<i>V</i>	127	Suomalainen et al. (1992) "Spike Protein-Nucleocapsid Interactions Drive the Budding of Alphaviruses," <i>J. Virol. 66(8):4737-4747</i>	
<i>MK</i>	128	Sykes et al. (1999) "Genetic Live Vaccines Mimic the Antigenicity but Not	

Examiner Signature	<i>R. M. Kelly</i>	Date Considered	2/2/07
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "X" if English language Translation is attached.

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/735,601
Filing Date	12/12/2003
First Named Inventor	Smith et al.
Art Unit	1635 1633
Examiner Name	Brian A. Whitemann Robert M. Kelly
Attorney Docket Number	95-02

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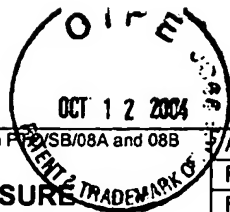
Examiner Initial*	Cite No. ¹	REFERENCE		T ²
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
JAK		Pathogenicity of Live Viruses," <i>DNA Cell Biol.</i> 18(7):521-531		
	129	Thompson et al. (Oct. 2003) "Enterovirus 71 Contains a Type I IRES Element that Functions When Eukaryotic Initiation Factor eIF4G is Cleaved," <i>Virol.</i> 315:259-266		
	130	Ubol et al. (1994) "Neurovirulent Strains of Alphavirus Induce Apoptosis in bcl-2-Expressing Cells: Role of A Single Amino Acid Change in the E2 Glycoprotein," <i>Proc. Natl. Acad. Sci. USA</i> 91:5202-5206		
	131	Van der Velden et al. (1995) "Defective Point Mutants of the Encephalomyocarditis Virus Internal Ribosome Entry Site can be Complemented <i>in Trans</i> ," <i>Virol.</i> 214:82-90		
	132	Verma et al. (1997) "Gene Therapy – Promise and Prospects," <i>Nature</i> 389:239-242		
	133	Wang et al. (2000) "Core Protein-Coding Sequence, But Not Core Protein, Modulates the Efficiency of Cap-Independent Translation Directed by the Internal Ribosome Entry Site of Hepatitis C Virus," <i>J. Virol.</i> 74(23):11347-11358		
	134	Weiss et al. (1991) "Recombination Between Sindbis Virus RNAs," <i>J. Virol.</i> 65:4017-4025		
	135	Wen et al. (1986) "Expression of Genes Encoding Vesicular Stomatitis and Sindbis Virus Glycoproteins in Yeast Leads to Formation of Disulfide-Linked Oligomers," <i>Virol.</i> 153:150-154		
	136	Wen et al. (2001) "Tricistronic Viral Vectors Co-Expressing Interleukin-12 (IL-12) and CD80 (B7-1) for the Immunotherapy of Cancer: Preclinical Studies in Myeloma," <i>Cancer Gene Therapy</i> 8(5):361-370		
	137	Williamson et al. (Feb. 2003) "Characterization and Selection of HIV-1 Subtype C Isolates for Use in Vaccine Development," <i>AIDS Research and Human Retroviruses</i> 19(2):133-144		
	138	Wilson et al. (2000) "Naturally Occurring Dicistronic Cricket Paralysis Virus RNA is Regulated by Two Internal Ribosome Entry Sites," <i>Mol. Cell. Biol.</i> 20(14):4990-4999		
	139	Xiong et al. (1989) "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1188-1191		
	140	Yang et al. (1997) "Location of the Internal Ribosome Entry Site in the 5'Non-Coding Region of the Immunoglobulin Heavy-Chain Binding Protein (BiP) mRNA: Evidence for Specific RNA-Protein Interactions," <i>Nuc. Acids. Res.</i> 25(14):2800-2807		
JAK	141	Zhao et al. (1992) "Role of Cell Surface Spikes in Alphavirus Budding," <i>J. Virol.</i> 66:7089-7095		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number	10/735,601
Filing Date	December 12, 2003
First Named Inventor	Smith et al.
Art Unit	4636 / 633
Examiner Name	Brian A. Whiteman Robert Kelly
Attorney Docket Number	95-02

GWS 10/12/2004

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²
PMK	1	WO 92/10578	06/25/1992			
PMK	2	WO 99/08706	02/25/1999			

NON-PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
PMK	1	Balasuriya et al. (Feb. 2002) "Alphavirus replicon particles expressing the two major envelope proteins of equine arteritis virus induce high level protection against challenge with virulent virus in vaccinated horses"; <i>Vaccine</i> 20:1609-1617.	
	2	Barry et al. (2004) "Expression library immunization to discover and improve vaccine antigens"; <i>Immunological Reviews</i> 199:68-83	
	3	Bell et al. (Mar. 1978) "Effect of Low-NaCl Medium on the Envelope Glycoproteins of Sindbis Virus"; <i>J. Virol.</i> 25(3):764-769	
	4	Bergman et al. (Apr. 2003) "Long-Term Survival of Dogs with Advanced Malignant Melanoma after DNA Vaccination with Xenogeneic Human Tyrosinase: A Phase I Trial"; <i>Clin. Cancer Research</i> 9:1284-1290	
	5	Casimiro et al. (Jan. 2002) "Vaccine-induced immune responses in rodents and nonhuman primates by use of a humanized immunodeficiency virus type 1 pol gene"; <i>J. Virol.</i> 76:185-195	
	6	Frolov et al. (1996) "Alphavirus-based expression vectors: Strategies and applications"; <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377	
PMK	7	Geisbert et al. (May 2002) "Evaluation in Nonhuman Primates of Vaccines against Ebola Virus"; <i>Emerging Infect. Dis.</i> 8(5):503-507	

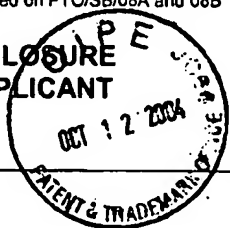
Examiner Signature		Date Considered	2/2/07
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**


Application Number	10/735,601
Filing Date	December 12, 2003
First Named Inventor	Smith et al.
Art Unit	1636 / 633
Examiner Name	Brian A. Whitman Robert Kelly
Attorney Docket Number	95-02

GWS 10/12/2004

<i>Ryk</i>	8	Hahn et al. (1992) "Infectious Sindbis Virus Transient Expression Vectors for Studying Antigen Processing and Presentation," <i>Proc. Natl. Acad. Sci. USA</i> 89:2679-2683	
	9	Heiser et al. (Feb. 2002) "Autologous Dendritic Cells Transfected with Prostate-Specific Antigen RNA Stimulate CTL Responses Against Metastatic Prostate Tumors," <i>J. Clin. Inv.</i> 109(3):409-417	
	10	Hevey et al. (1998) "Marburg Virus Vaccines Based upon Alphavirus Replicons Protect Guinea Pigs and Nonhuman Primates"; <i>Virology</i> 251:28-37	
	11	Kinney et al. (1989) The Full-Length Nucleotide Sequences of the Virulent Trinidad Donkey Strain of Venezuelan Equine Encephalitis Virus and Its Attenuated Vaccine Derivative, Strain TC-83," <i>Virology</i> 170:19-30	
	12	Koller et al. (Sept. 2001) "A high-throughput alphavirus-based expression cloning system for mammalian cells"; <i>Nature Biotech.</i> 19:851-855	
	13	Kumamoto et al. (Jan. 2002) "Induction of Tumor-Specific Protective Immunity by <i>in situ</i> Langerhans Cell Vaccine," <i>Nature Biotech.</i> 20:64-69	
	14	Leitner et al. (Jan. 2000) "Enhancement of Tumor-specific Immune Response with Plasmid DNA Replicon Vectors"; <i>Cancer Research</i> 60:51-55	
	15	Li et al. (October 1996) "Production of infectious recombinant Moloney murine leukemia virus particles in BHK cells using Semliki Forest virus-derived RNA expression vectors," <i>Proc. Natl. Acad. Sci. USA</i> 93:11658-11663	
	16	Overwijk et al. (Jan. 2001) "Creating therapeutic cancer vaccines: notes from the battlefield"; <i>Trends in Immunol.</i> 22(1):5-7	
	17	Pardoll, D.M. (May 1998) "Cancer Vaccines"; <i>Nature Medicine Vaccine Supplement</i> 4(5):525-531	
	18	Pardoll, D.M. (Apr. 2002) Spinning Molecular Immunology into Successful Immunotherapy"; <i>Nature Reviews - Immunology</i> 2:227-238	
	19	Pushko et al. (1997) "Replicon-Helper systems from Attenuated Venezuelan Equine Encephalitis Virus: Expression of Heterologous Genes <i>in Vitro</i> and Immunization against Heterologous Pathogens <i>in Vivo</i> "; <i>Virology</i> 239:389-401	
	20	Ragupathi et al. (Aug. 2002) "The case for polyvalent cancer vaccines that induce antibodies"; <i>Expert Rev. Vaccines</i> 1(2):193-206	
	21	Rayner et al. (Sep.-Oct. 2002) "Alphavirus Vectors and Vaccination," <i>Rev. Med. Virol.</i> 12:279-296	
	22	Sadanaga et al. (Aug. 2001) "Dendritic cell vaccination with MAGE peptide is a novel therapeutic approach for gastrointestinal carcinomas"; <i>Clin. Cancer Res.</i> 7:2277-2284	
	23	Slepishkin et al. (Sep.-Oct. 2003) "Large scale purification of a lentiviral vector by size exclusion chromatography or mustang Q ion exchange capsule."; <i>Bioprocessing J.</i> p:89-94	
	24	Waite et al. (Jan. 1970) "Inhibition of Sindbis Virus Production by Media of Low Ionic Strength: Intracellular Events and Requirements for Reversal"; <i>J. Virol.</i> 5:60-71.	
<i>Ryk</i>	25	Ward et al. (Sep. 2002) "Immunotherapeutic Potential of Whole Tumor Cells," <i>Cancer Immunol. Immunother.</i> 51:351-357.	

Examiner Signature	<i>R. A. Kelly</i>	Date Considered	2/2/07
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Substitute for form 1449/PTO, based on PTO/SB/08A and 08B		Application Number	10/735,601
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	December 12, 2003
		First Named Inventor	Smith et al.
		Art Unit	4635/633
		Examiner Name	Brian A. Whitteman Robert Kelly
		Attorney Docket Number	95-02

GWS 10/12/2004

PK	26	Wilson et al. (Aug. 2001) "Vaccine Potential of Ebola Virus VP24, VP30, VP35, and VP40 Proteins"; <i>Virology</i> 286:384-390	
	27	Yamanaka et al. (Sept. 2002) Marked enhancement of antitumor immune responses in mouse brain tumor models by genetically modified dendritic cells producing Semliki Forest virus-mediated interleukin-12"; <i>J. Neurosurg.</i> 97:611-618.	
	28	Yamanaka et al. (Mar. 2001) "Enhancement of antitumor immune response in glioma models in mice by genetically modified dendritic cells pulsed with Semliki Forest virus-mediated complementary DNA"; <i>J. Neurosurg.</i> 94:474-481.	
PK	29	Ying et al. (1999) "Cancer therapy using a self-replicating RNA vaccine"; <i>Nature Medicine</i> 5(7):823-827	

Examiner Signature	<i>Robert Kelly</i>	Date Considered	2/2/07
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IDS of 10/7/04

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Multi-Antigenic Alphavirus Replican Particles and Methods
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Application Number : 10/735601



Confirmation Number: 2496

First Named Applicant: Jonathan Smith

Attorney Docket Number: 95-02

Art Unit: ~~1635~~ 1633

Examiner: ~~Brian Whiteman~~ Robert Kelly

Search string: (6770283 or 6767699 or 6521235 or 6495143 or 6485958 or 6306388 or 6267967 or 6242259 or 6197502 or 6194191 or 6190666 or 6156558 or 6146874 or 5989553 or 5958738 or 5853719 or 5831016 or 5827658 or 5811407 or 5792462 or 5726022 or 5703057 or 5639650 or 5505947 or 5521082 or 5185440 or 4650764 or 20020102273 or 20020018766 or 20030021766 or 20030091591 or 20040166573).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
ZMK	1	6770283	2004-08-03	Garoff et al.			
	2	6767699	2004-07-27	Polo et al.			
	3	6521235	2003-02-18	Johnston et al.			
	4	6495143	2002-12-17	Lee et al.			
	5	6485958	2002-11-26	Blanch et al.			
	6	6306388	2001-10-23	Nair et al.			
	7	6267967	2001-07-31	Johnston et al.			
	8	6242259	2001-06-05	Polo et al.			
	9	6197502	2001-03-06	Renner et al.			
	10	6194191	2001-02-27	Zhang et al			
	11	6190666	2001-02-20	Garoff et al.			
	12	6156558	2000-12-05	Johnston et al.			
	13	6146874	2000-11-14	Zolotukhin et al.			
	14	5989553	1999-11-23	Johnston et al.			
	15	5958738	1999-09-28	Lindemann et al.			
	16	5853719	1998-10-29	Nair et al.			
	17	5831016	1998-03-11	Wang et al.			
	18	5827658	1998-10-27	Liang, B.			
ZMK	19	5811407	1998-09-22	Johnston et al.			

Rob A. Kelly 2/2/07

<i>CHK</i>	20	5792462	1998-08-11	Johnston et al.			
	21	5726022	1998-03-10	Burmer, G.			
<i>1</i>	22	5703057	1997-10-30	Johnston et al.			
	23	5639650	1997-06-17	Johnston et al.			
	24	5505947	1996-04-09	Johnston et al.			
<i>1</i>	25	5521082	1996-05-28	Lewis et al.			
<i>✓</i>	26	5185440	1993-02-09	Davis et al.			
<i>CHK</i>	27	4650764	1987-03-17	Temin et al.			

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<i>CHK</i>	1	20020102273	2002-08-01	Grieve et al.			
<i>1</i>	2	20020018766	2002-02-14	Roberts et al.			
	3	20030021766	2003-01-30	Vadjy et al.			
<i>✓</i>	4	20030091591	2003-05-15	Xiong et al.			
<i>CHK</i>	5	20040166573	2004-08-26	Smith et al.			

Signature

Examiner Name	Date
<i>R. L. Kelly</i>	<i>2/2/07</i>